



# Quarterly Project Status

## June 23, 2004

Vashon-Maury Island  
Water Resources Evaluation

June 23, 2004

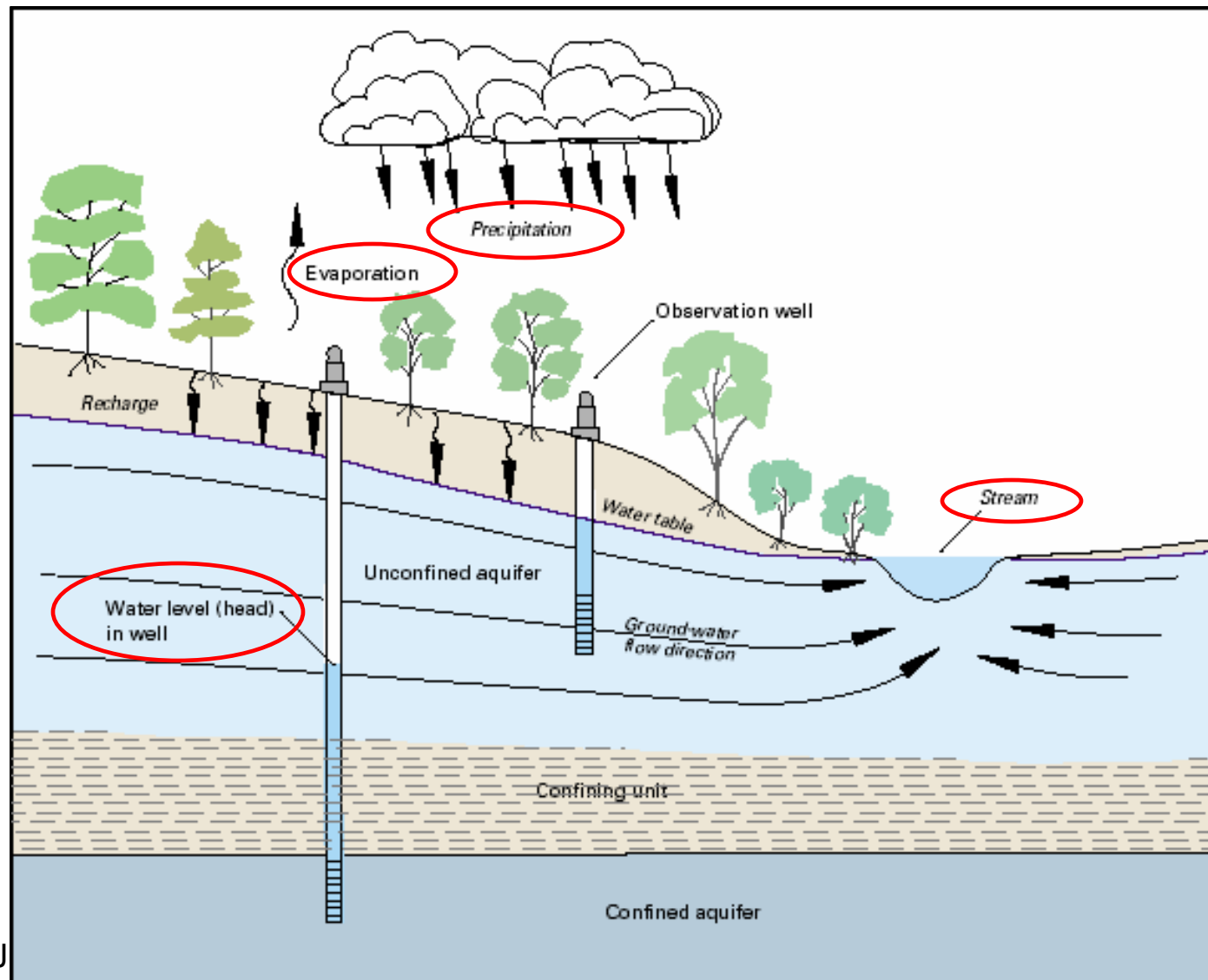


# Status Summary

- Work emphasis this quarter has been on groundwater and stream flow monitoring
- Level of effort will increase after the completion of the UW Seattle-Area Geologic Mapping Project Consultant Contract
- Still on track to meet all deliverables

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# Monitoring Activities Overview





# Monitoring Progress

- Completed 1 round of ambient monitoring for groundwater quality at 19 wells and 1 spring
- Nearly completed installation of stream and precipitation gages
- Updated Sampling and Analysis Plan for future WQ sampling

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# Monitoring Progress

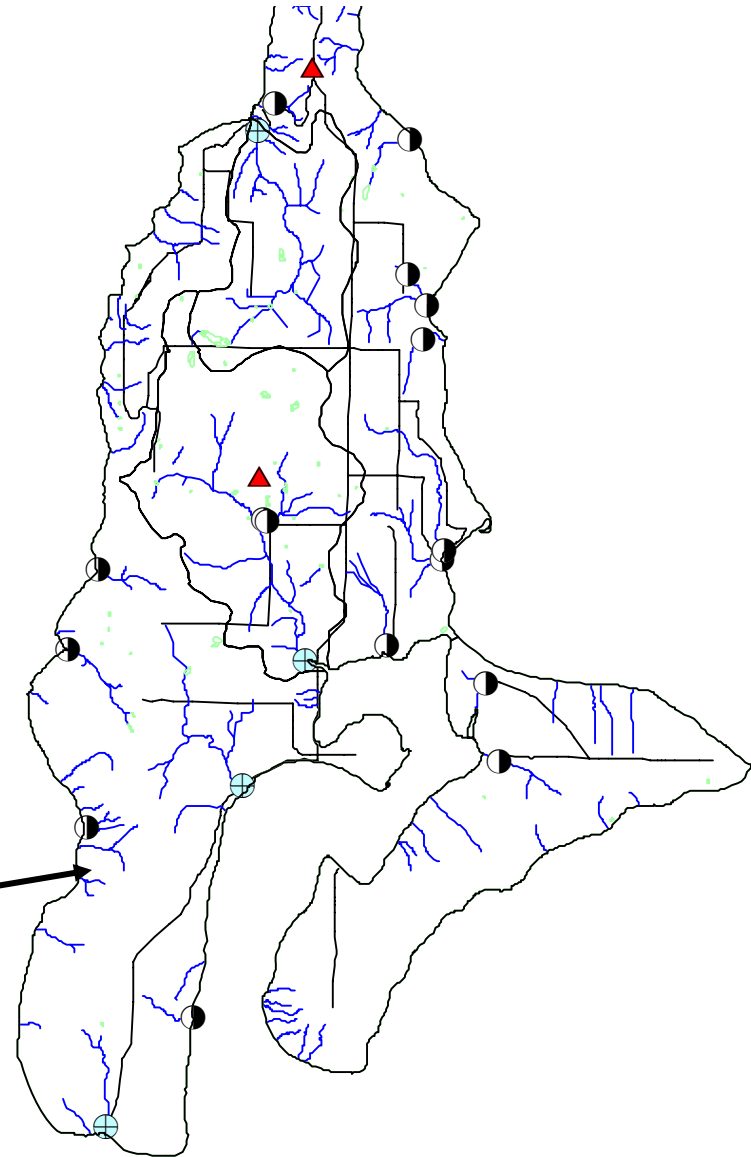
## *Stream & Precipitation Gages*

- Existing gages
  - Shinglemill (since Oct 1998)
  - Judd Creek (since July 1999)
- New gages: Fisher and Tahlequah -- installed May 2004
- Direct flow measurement: 16 streams April 2004 (next 7/2004)
- Existing rain gages (Oct 1999)
  - Shinglemill and Judd watersheds
- New rain gages (this summer)
  - South Vashon and Maury Island
- Working to add stream gage to Christenson Creek this summer

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# Gaging Stations on Vashon

- 2 Rain Gages ▲
- 4 Recording Stream Gages ⊕
- 16 Flow Measuring Locations →
- 2 additional rain gages to be installed



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# Gaging locations



**Tahlequah gage  
with new housing**

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**Shinglemill Creek gage below Cedarhurst Rd**



**Fisher Creek gage  
site, upstream of  
Vashon Highway**



# Proposed Sampling Changes

- WQ sampling will be done 1/year
- Samples will be tested for analytes on a rotating basis - see next slide
- Sampling will be shifted to dedicated monitoring wells in 2006

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# Sampling and Analysis Plan Changes

## Table 1. Proposed Analyte Sampling Schedule

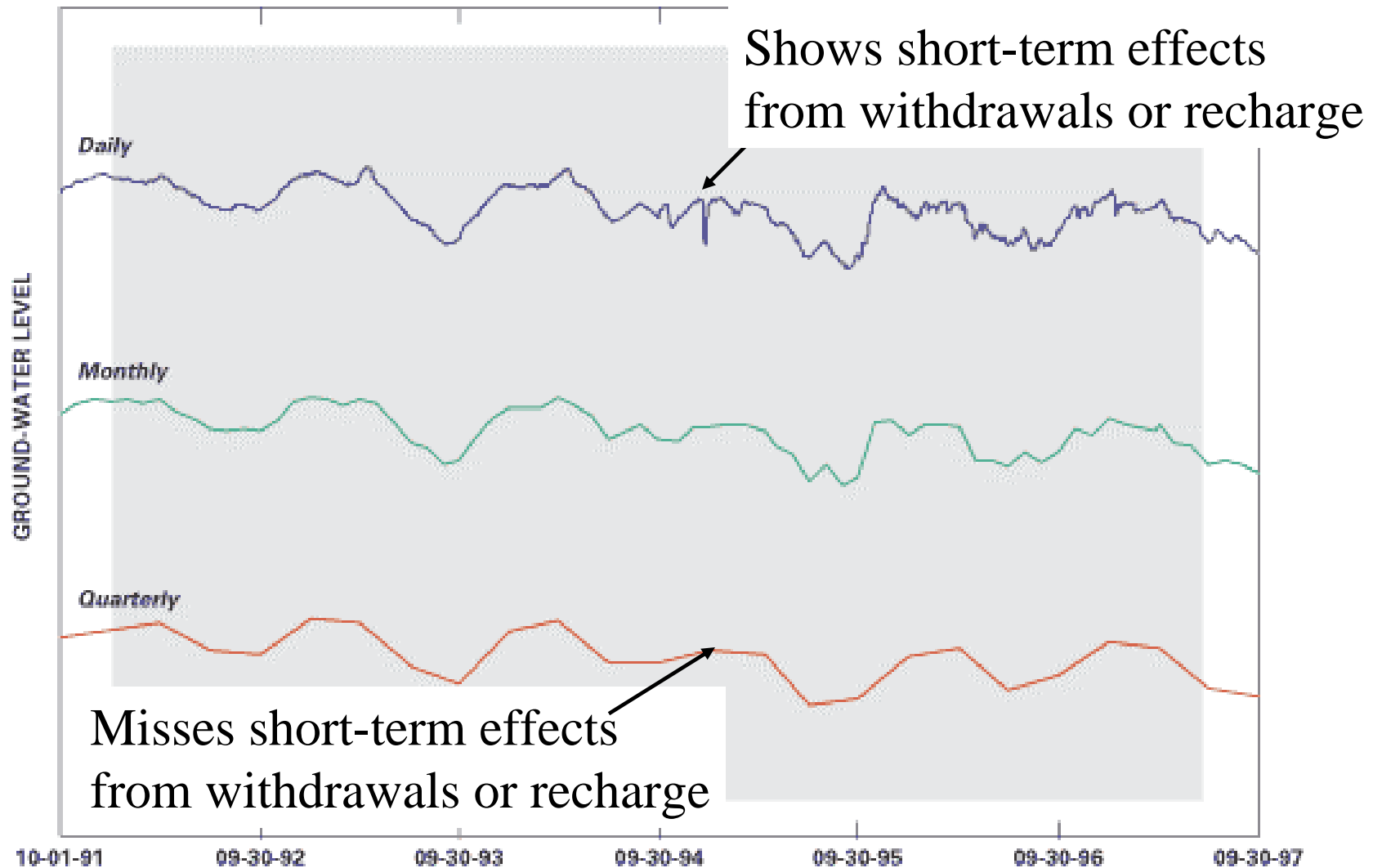
<u>Year</u>	<u>Monitoring Wells</u>	<u>Current Sites</u>
2004	NA	Baseline
2005	NA	EI - all current sites; Pesticides - selected
2006	Baseline - all monitoring wells;	EI - selected sites
2007	EI -- all monitoring wells;	EI - selected sites
2008	EI - all monitoring wells; Pesticides - selected	EI - selected sites
2009	Baseline - all monitoring wells	EI - selected sites
2010	EI -- all monitoring wells;	EI - selected sites

EI: Environmental Indicators - Nitrate + Nitrite, Arsenic, and Chloride

Pesticides: yet to be determined

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# Why dedicated monitoring wells?



June 23, 2004 Example of Water Level hydrograph



# Data Management Progress

## ■ *Completed Initial Water Level Trend Analysis* - *see handout for details*

- Water level changes seen on VMI are not significant
- All water level decreases follow precipitation patterns and similar trends are being observed in other parts of the King County

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# Project Management and Coordination Progress

- Continue to participate in WRIA 15 planning process
  - Susan Oxholm is the KC representative for VMI
- Still Upcoming
  - Write the VMI technical portion of WRIA 15 plan

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# Looking Ahead to Modeling

- After the completion of the VMI geologic mapping, the Phase 1 modeling will begin
- The Phase 1 model will be finished by the end of 2004

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# 2004 Deliveries

Milestones & Deliverables		
1	Recharge Quantities Map	March
2	Project Status Website	March
3	Updated Groundwater Sampling and Analysis Plan	April
5	Installation of Stream and Precipitation Gages	April
4	Water Level Contour Maps	November
6	Phase 1 Groundwater Flow Model Completed	November
7	Phase 1 Modeling Report	December

- Still on track to meet all planned deliverables by the end of 2004

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# Budget Changes

- No major budget changes to report
- Almost 50% expended by June 17


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# Visit the website and sign up to get project updates!

<http://dnr.metrokc.gov/wlr/WQ/vashon-island/index.htm>

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